

Attorney Docket No. SAM-0219 PATENT

1872 U.S. PTO 09/902243

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

BOX PATENT APPLICATION Assistant Commissioner for Patents Washington, D.C. 20231

	υ,	NEW APPLICATION	TRANSMITTAL
Trans	smitted her	ewith for filing is the patent application of	
Inventor(s):		Jae-Phil Boo Soo-Young Tak Kwang-Bok Kim Kyung-Hyun Kim Chang-Ki Hong	
For (title):		METHOD OF FABRICATING A NON-VOLATILE MEMORY DEVICE HAVING A TUNNEL-INSULATING LAYER INCLUDING MORE THAN TWO PORTIONS OF DIFFERENT THICKNESS	CERTIFICATE OF MAILING 37 C.F.R. § 1.10 "Express Mail" Mailing Label Number EL799313964US I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to BOX PATENT APPLICATION, Assistant Commissioner for Patents, Washington, DC 20231.
1.	Type o a(n)	of Application This new application is for	Date: July 10, 2001 Lisa Sanders LISA SANDERS Print Name
	🛛 Orig	ginal (nonprovisional)	
	□ Design		
		Plant	
	\square Div	visional.	
	☐ Con	ntinuation.	
	□ Cor	ntinuation-in-part (C-I-P).	
2.	Benefit of	Prior Application(s)	
	2 00-3	The new application being transmitted claim 39609.	ns the benefit of prior Korean application no.
3.	Papers E	Enclosed	
	9_	Pages of specification	
	2	Pages of claims	
	1	Page of Abstract	
	6	_ Sheets of drawings ☑ formal □ informal	

Page of Cover Sheet

		he enclosed drawing(s) are photograph(s), and there is also attached a "PETITION TO ACCEPT HOTOGRAPH(S) AS DRAWING(S)." 37 C.F.R. 1.84(b).			
4.	Addit	litional papers enclosed			
		Pre	liminary	Amendment	
		Info	ormation	Disclosure Statement (37 C.F.R. 1.98)	
		Fon	m PTO-1	449 (PTO/SB/08A and 08B)	
		Cop	ies of cit	ed references	
		Dec	laration o	of Biological Deposit	
☐ Submission of "Sequence Listing," of			of "Sequence Listing," computer readable copy and/or amendment pertaining thereto for my invention containing nucleoticle and/or amino acid sequence.		
			thorizatio	on of Attorney(s) to Accept and Follow Instructions from Representative	
		Spe	ecial Con	nments	
	\boxtimes	Oth	er: Retui	m Postcard.	
5.	Dec	Declaration or oath			
	\boxtimes	Enc	closed		
			Unexec	puted	
		X	Execute		
			\boxtimes	inventors	
				legal representative of inventor(s). 37 CFR 1.42 or 1.43.	
				joint inventor or person showing a proprietary interest on behalf of inventor who refused to sign or cannot be reached.	
				This is the petition required by 37 CFR 1.47 and the statement required by 37 CFR 1.47 is also attached. See item 12 below for fee.	
		Not	t Enclose	d	
			entor(s).	is made by a person authorized under 37 C.F.R. 1.41 (c) on behalf of all the above named	
				Showing that the filing is authorized.	
6.	Assig	nmen	t		
	\boxtimes	An a	assignme	nt of the invention to Samsung Electronics Co., Ltd.	
			is attach	ed. A separate T "COVER SHEET FOR ASSIGNMENT (DOCUMENT) MPANYING NEW PATENT APPLICATION" or FORM PTO 1595 is also attached.	

7. Certified Copy

Certified copy(ies) of application(s)

Korea Country	00-39609 Appln. no.	November 7, 2000 Filed
Country	Appln. no.	Filed
Country	Appln. no.	Filed

from which priority is claimed

- is (are) attached.
- □ will follow.

8. Fee Calculation (37 C.F.R. 1.16)

		CLAIMS AS FILED		
	Number filed	Number Extra	Rate	Basic Fee 37 C.F.R. 1.16(a) \$710.00
Total Claims (37 CFR 1.16(c))	9 - 20 =	0	\$ 18.00	4.13800
Independent Claims (37 CFR 1.16(b))	1 -3=	0	\$ 80.00	
Multiple dependent claim(if any (37 CFR 1.16(d))	(s),	+	\$270.00	

- A Preliminary Amendment canceling claims is enclosed. The filing fee is calculated based on the number of claims remaining after entry of the Preliminary Amendment.
- ☐ Amendment deleting multiple-dependencies is enclosed.
- Fee for extra claims is not being paid at this time.

Filing Fee Calculation

\$710.00

9.	Small E	Entity Statement(s)			
	☐ Verified Statement(s) that this is a filing by a small entity under 37 CFR 1.9 and 1.27 is (are) attached.				
		Status as a small entity was claimed in prior application _ from which benefit is being claimed for this application un			
	35	5 U.S.C.			
		□ 120,			
		☐ 121,			
	□ 365(c),				
	anc	d which status as a small entity is still proper and desired.			
		☐ A copy of the verified statement in the prior	application is included.		
		Filing Fee Calculation (50% of A, 1	B or C above)		
		\$			
10.	Fee	e Payment Being Made at This Time			
		Not Enclosed			
		No filing fee is to be paid at this time. (This and the surcharge required by 3 7 C. F.R. 1.16)	6(e) can be paid subsequently.)		
	\boxtimes	Enclosed			
		☐ Basic filing fee	\$ 710.00		
		Dasto Ming for	<u>, 10.00</u>		
		□ Recording assignment			
		(\$40.00; 37 C.F.R. 1.21(h)) (See attached "COVER SHEET FOR ASSIGNMENT			
		ACCOMPANYING NEW APPLICATION".)	\$		
		Total fees enclosed	\$750.00		
11.	Met	thod of Payment of Fees			
		☑ Checks in the amounts of \$ 710.00 and \$ 40.00			
		☐ Charge Account No. 50-1798 in the amount of A duplicate of this transmittal is attached.	\$		

12. Authorization to Charge Additional Fees

X	The Commissioner is hereby authorized to charge the following additional fees during the entire pendency
	of this application to Account No. 50-1798.
	☑ 37 C.F.R. 1.16(a), (f) or (g) (filing fees)
	☑ 37 C.F.R. 1.16(b), (c) and (d) (presentation of extra claims)
	37 C.F.R. 1. 1 6(e) (surcharge for filing the basic filing fee and/or declaration on a date later than the filing date of the application)
	☐ 37 C.F.R. 1.17 (application processing fees)
	☐ 37 C.F.R. 1.18 (issue fee at or before mailing of Notice of Allowance, pursuant to 37 C.F.R. 1.311(b))
ľ	nstructions as to Overpayment
	Credit Account No. 50-1798

☐ Credit Account No. 50-1798

□ Refund

MILLS OF ELLO LLP
Eleven Beacon Street, Suite 605

Boston, MA 02108

13.

Telephone: (617) 994-4900, Ext. 4901

Facsimile: (617) 742-7774

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Respectfully submitted,

L Steven M. Mills

Registration Number 36,610 Attorney for Applicant

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):

Jae-Phil Boo, et al.

Filing Date:

Herewith

Title:

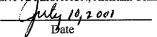
METHOD OF FABRICATING A NON-VOLATILE MEMORY DEVICE

HAVING A TUNNEL-INSULATING LAYER INCLUDING MORE THAN

TWO PORTIONS OF DIFFERENT THICKNESS

CERTIFICATE OF MAILING UNDER 37 C.F.R.§ 1.10

"Express Mail" Mailing Label Number <u>EL799313964US</u> I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1. On the date indicated below and is addressed to BOX PATENT APPLICATION, Assistant Commissioner for Patents, Washington, DC 20231.



Lisa Sanders

BOX PATENT APPLICATION

Assistant Commissioner for Patents

Washington, DC 20231

TRANSMITTAL LETTER

Sir:

Enclosed herewith for filing in the above-identified patent application please find the following listed items:

- 1. New Application Transmittal;
- 2. New Patent Application;
- 3. Executed Declaration, Petition and Power of Attorney;
- 4. Six (6) Sheets of Formal Drawings;
- 5. Certified Copy of Priority Document Korean Application No. 00-39609;
- 6. Check in the amount of \$710.00 to cover application filing fee;
- 7. Assignment Recordation Form Cover Sheet PTO-1595;
- 8. Executed Assignment;
- 9. Check in the amount of \$40.00 to cover Assignment Recordation fee; and
- 10. Return Postcard.

In connection with the foregoing matter, please charge any additional fees which may be due, or credit any overpayment, to Deposit Account Number 50-1798. <u>A duplicate copy of this letter is provided for this purpose</u>.

Respectfully submitted,

MILLS & ONELLO LLP

Eleven Beacon Street, Suite 605

Boston, MA 02108

Telephone: (617) 994-4900 Facsimile: (617) 742-7774

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Steven M. Mills

Registration Number 36,610 Attorney for Applicant